

Serial No. 10/791,628  
Filing Date: March 1, 2004

RECEIVED  
CENTRAL FAX CENTER  
JUN 07 2004

**In the Specification:**

Please replace the paragraph beginning at page 4, line 9 with the following paragraph:

~In a particularly preferred embodiment the enzyme is a *Bacillus lenthus* subtilisin (SBL). In preferred embodiments, the cysteine is substituted for an amino acid in a subtilisin, where the amino acid corresponds to a reference residue in a *Bacillus lenthus* subtilisin, where the reference residue is at or near a residue selected from the group consisting of residue 156, residue 168, residue 217, residue 222, residue 82, residue 96, residue 104, residue 107, residue 189, and residue 209.~

Please replace the paragraph found at page 18, lines 5-6, with the following paragraph:

--Figure 19 is a plot of anti-biotin degradation by biotin-CMM as a function of time.--

Please replace the paragraph beginning at page 17, line 27, with the following paragraph:

~Figure 14A, 14B, and 14C illustrate selective lectin degradation by sugar-modified wild-type subtilisin GG36, referred to throughout this disclosure as "GG36-WT".~

Please replace the paragraph beginning at page 59, line 11, with the following paragraph:

-- N62C, L217C, S166C, and S156C mutants were modified with the MTS-pyrazole reagent 4 by reaction at pH 9.5 following the standard protocol. In all cases the resulting enzymes were active after modification and the data for amidase kinetics (substrate suc-AAPFpNA) and ESMS (electron spray mass spectrometry) are shown in Table 2.~

Serial No. 10/791,628  
 Filing Date: March 1, 2004

Please replace Table 30 at page 92, line 13 with the following Table 30:

(+)-Biotin- CMM	Amidase Kinetics			ESMS	
	$k_{cat}$	$K_M$	$k_{cat}/K_M$	Calc.	Found
S166C	56.3±1.4	1.00±0.05	56.1±3.3	26958	26967
S156C	75.4±2.2	0.83±0.06	91.1±7.2	26958	26968
N62C	122±1.8	1.06±0.04	115±4.4	26931	26936
L217C	60.3±0.8	0.72±0.02	83.4±3.1	26932	26936
GG36-WT	153±4	0.73±0.05	209±15	26698	26694

Please replace Table 31 at page 93, line 6 with the following Table 31:

(+)-Biotin- CMM	Esterase Kinetics		
	$k_{cat}$	$K_M$	$k_{cat}/K_M$
S166C	489±41.0	0.59±0.14	830±212
S156C	825±42.7	0.68±0.10	1221±187
N62C	422±27.3	0.21±0.05	1973±497
L217C	432±52.5	0.35±0.15	1229±559
GG36-WT	1940±180	0.54±0.07	3560±540